

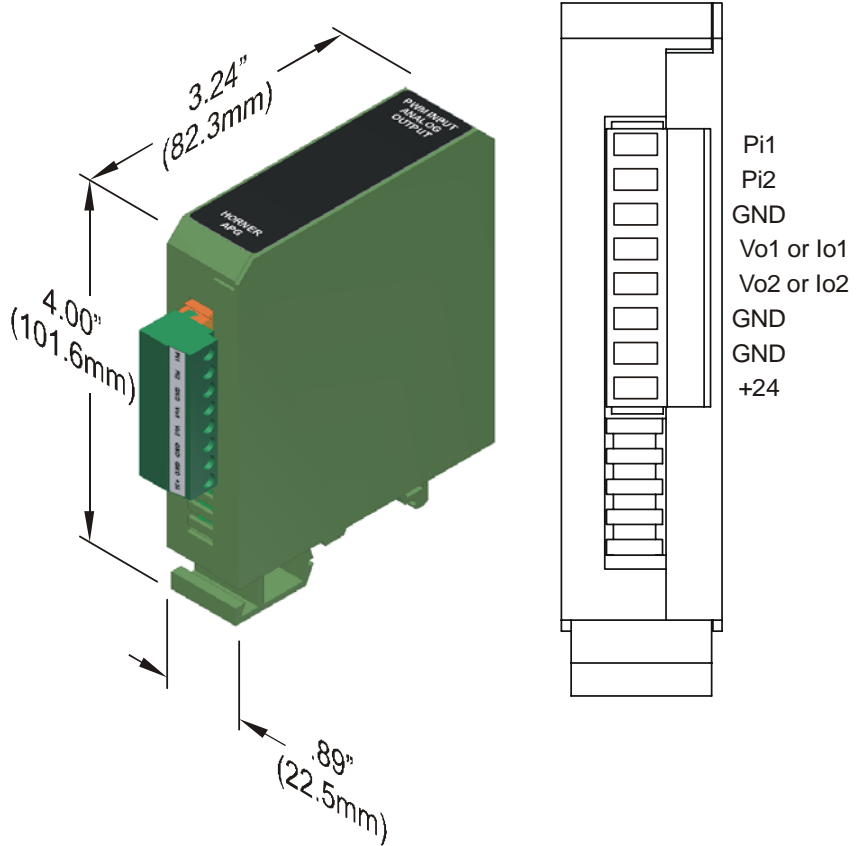


**HEXPV 0-10V
HEXPC 0-20mA
2 Channel PWM to Analog Converters**

Want More Information?
To download the XLE User Manual (MAN0805), refer to *Technical Support* in this document.

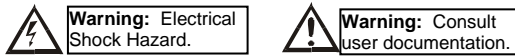
SPECIFICATIONS

HEXPV/HEXPC Specifications	
PWM to Analog Output	
Channels per Module	2
Nominal PWM Input Voltage	24 V P-P
Maximum Input Voltage Range	-0.5 to +33 VDC
Nominal Input Impedance	2.1 kΩ to Common
Max Upper Input Threshold	18 VDC
Min Lower Input Threshold	6 VDC
Step Change Response to 50%	12 ms
PWM Ripple Feed Through	
150 Hz, 50% Duty Cycle	0.40% of Full Scale, P-P
250 Hz, 50% Duty Cycle	0.04% of Full Scale, P-P
500 Hz, 50% Duty Cycle	0.0015% of Full Scale, P-P
Isolation	None
0-10V Outputs (HEXPV)	
Minimum Load	500Ω
Output Clamp	-0.5 / +12 VDC
0-20mA Outputs (HEXPC)	
Type	Sourcing
Maximum Load	500Ω
Output Clamp	-0.5 / +12 VDC
FS Calibration Accuracy	0.25%
System Linearity including XLE	0.75% Accuracy thru 10% to 90% DC of PWM Input
HEXPV Minimum Output Voltage	0.15V Typical
HEXPC Minimum Output Current	0.15/(100+RLoad) Typical
General Specifications	
Required Power (Steady State)	60 mA @ 24 VDC
Required Power (Inrush)	15A@μS
Operating Power Range	18 – 30 VDC
Safe Applied Power Range	-33 to +33 VDC
Relative Humidity	5 to 95% Non-Condensing
Operating Temperature	0° to 50° Celsius
Terminal Type	Screw Type, 5 mm Removable
Weight	3.0 oz
CE	See Compliance Table at http://www.heapg.com/Support/compliance.htm
UL	



SAFETY

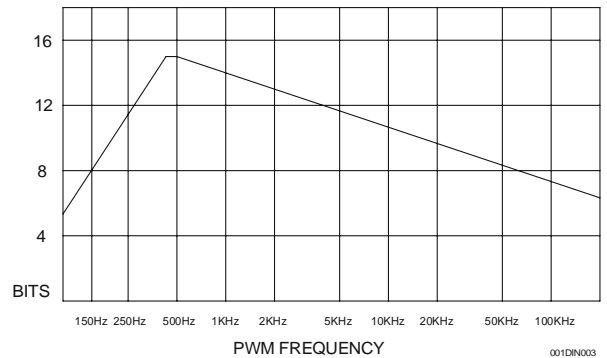
When found on the product, the following symbols specify:



- WARNING:** To avoid the risk of electric shock or burns, always connect the safety (or earth) ground before making any other connections.
- WARNING:** To reduce the risk of fire, electrical shock, or physical injury it is strongly recommended to fuse the voltage measurement inputs. Be sure to locate fuses as close to the source as possible.
- WARNING:** Replace fuse with the same type and rating to provide protection against risk of fire and shock hazards.
- WARNING:** In the event of repeated failure, do not replace the fuse again as a repeated failure indicates a defective condition that will not clear by replacing the fuse.
- WARNING:** Only qualified electrical personnel familiar with the construction and operation of this equipment and the hazards involved should install, adjust, operate, or service this equipment. Read and understand this manual and other applicable manuals in their entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.

- ◆ All applicable codes and standards need to be followed in the installation of this product.
- ◆ Adhere to the following safety precautions whenever any type of connection is made to the module:
 - Connect the safety (earth) ground on the power connector first before making any other connections.
 - When connecting to electric circuits or pulse-initiating equipment, open their related breakers.
 - Do not make connections to live power lines.
 - Make connections to the module first; then connect to the circuit to be monitored.
 - Route power wires in a safe manner in accordance with good practice and local codes.
 - Wear proper personal protective equipment including safety glasses and insulated gloves when making connections to power circuits.
 - Ensure hands, shoes, and floor are dry before making any connection to a power line.
 - Make sure the unit is turned OFF before making connection to terminals.
 - Make sure all circuits are de-energized before making connections.
- ◆ Before each use, inspect all cables for breaks or cracks in the insulation. Replace immediately if defective.

RESOLUTION VS FREQUENCY (XLe)



TECHNICAL SUPPORT

For assistance and manual updates, contact Technical Support at the following locations:

North America:
(317) 916-4274
www.heapg.com
email: techspt@heapg.com

Europe:
(+ 353-21-4321-266
www.horner-apg.com
email: techsupport@hornerirl.ie